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FIGURE 1

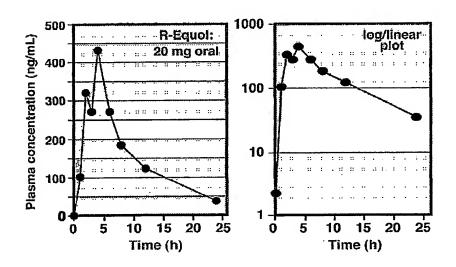


FIGURE 2

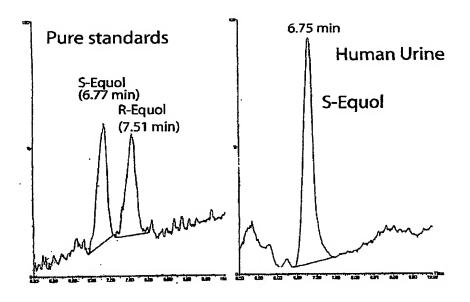


FIGURE 3

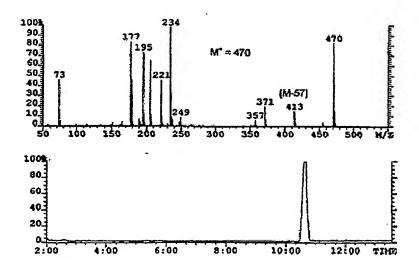


FIGURE 4

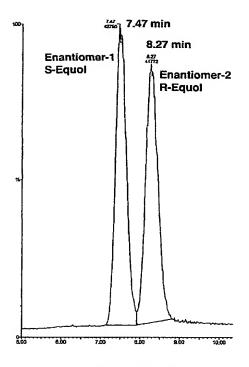
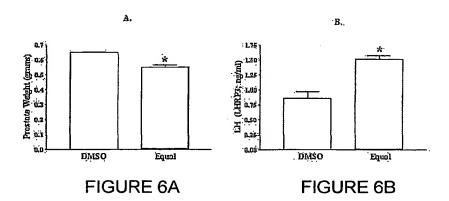
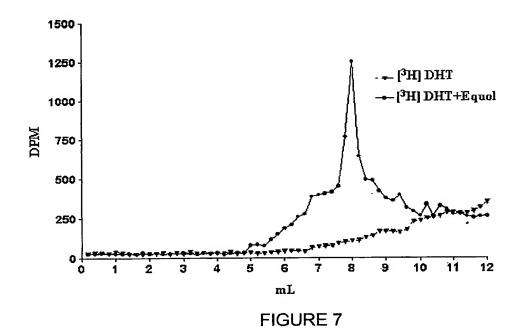


FIGURE 5





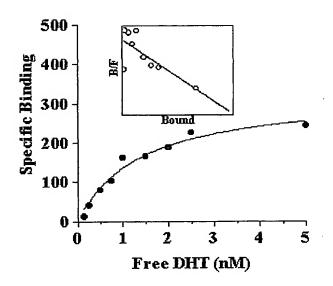


FIGURE 9

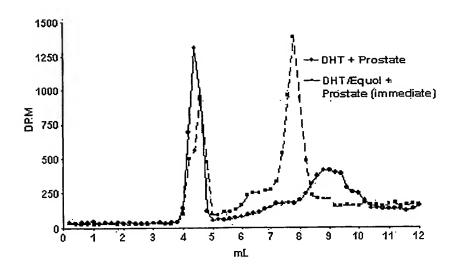


FIGURE 8A

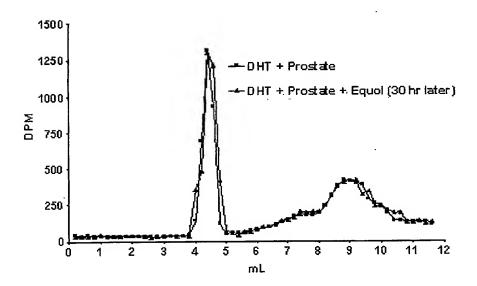


FIGURE 8B

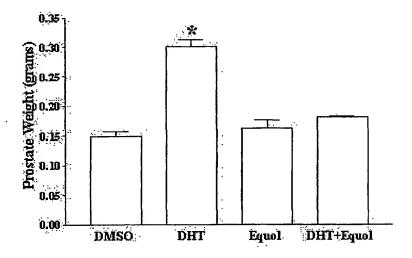


FIGURE 10A

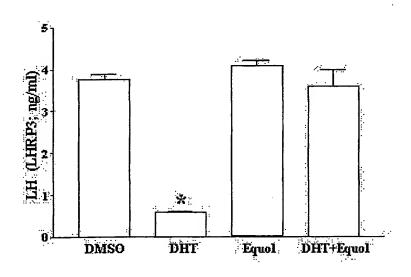
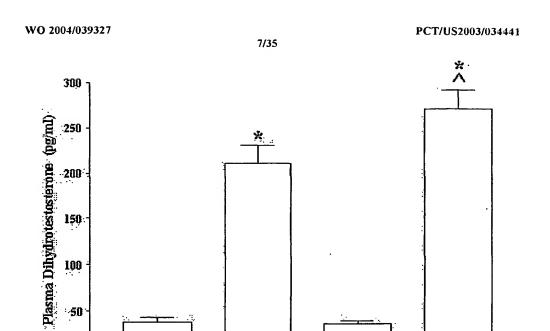


FIGURE 10B



O

DMSO

FIGURE 11

Equal

DHT+Equol

DHT

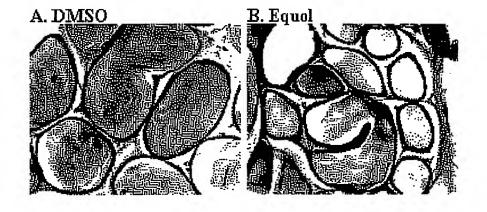


FIGURE 13

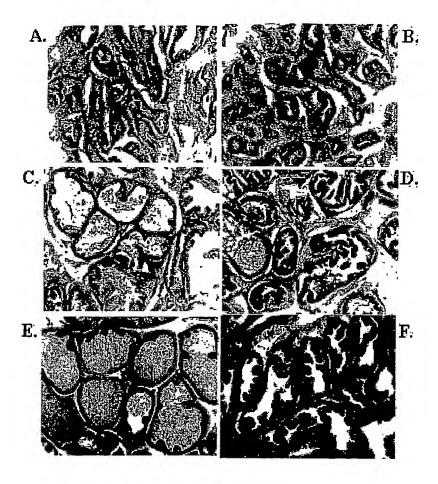


FIGURE 12

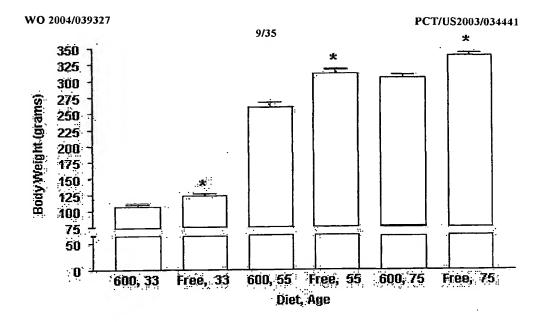


FIGURE 14

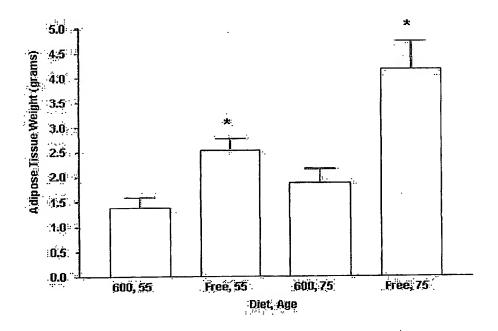
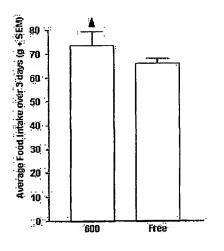


FIGURE 15



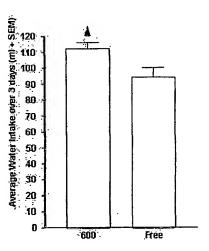


FIGURE 16A

FIGURE 16B

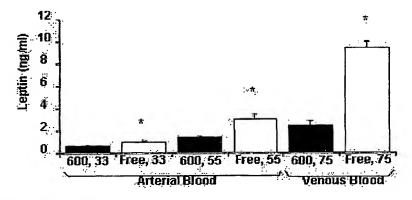
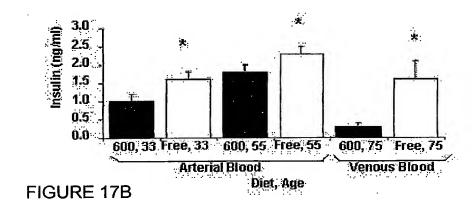


FIGURE 17A



Life-long L-E Male RAT Serum

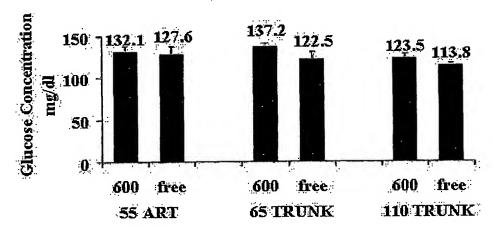


FIGURE 18

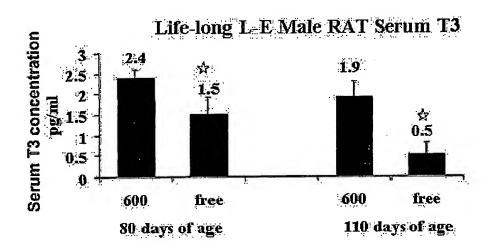


FIGURE 19

80 Day Old Life-long L-E Female Rat

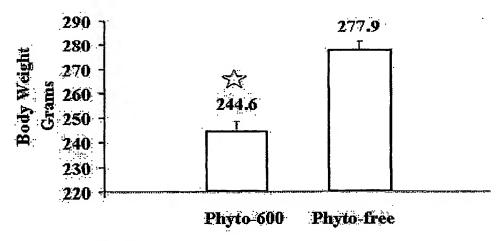


FIGURE 20



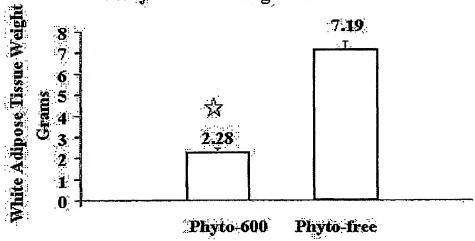


FIGURE 21

Life-long L-E Female RAT Serum

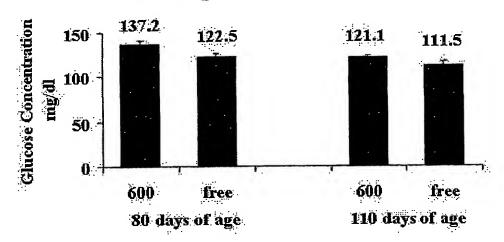


FIGURE 22

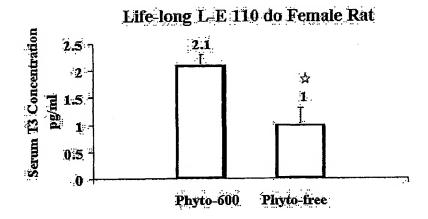


FIGURE 23

215 Day Old Female Rat Body

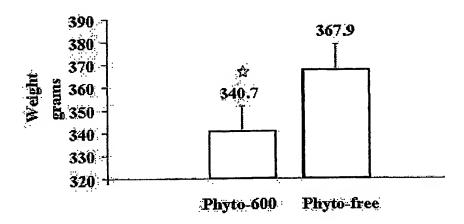


FIGURE 24

215 Day Old Female Rat White

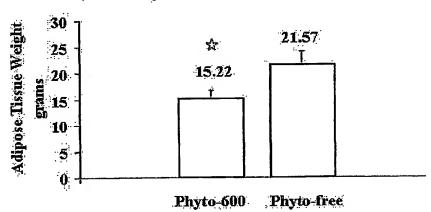


FIGURE 25

215 Days Old Female Rat Blood

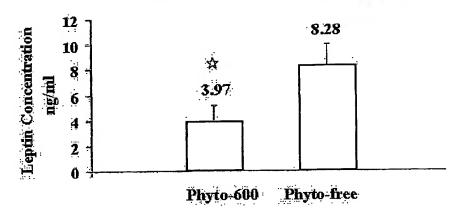
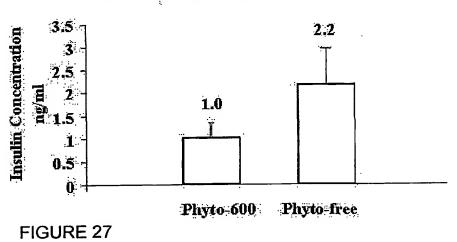


FIGURE 26

215 Day Old Female Rat Blood



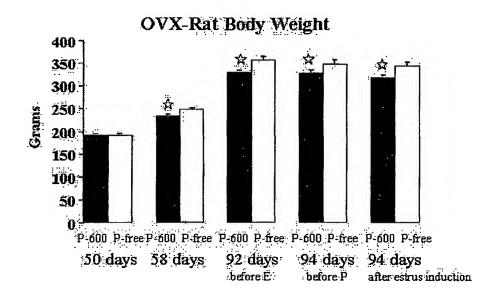


FIGURE 28

94 Day old OVX-Rat

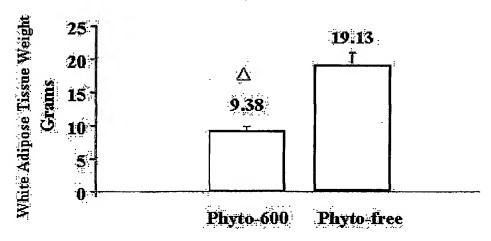


FIGURE 29

94 Day old OVX-RAT Serum Leptin

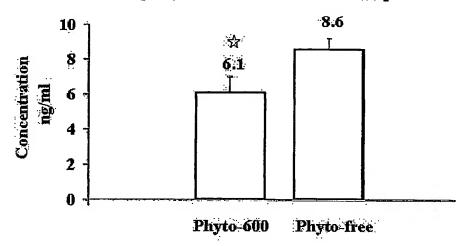


FIGURE 30

112 Day Old Male Rat

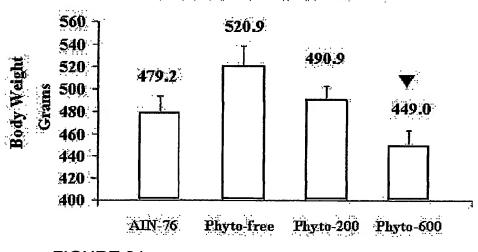


FIGURE 31

279 Day Old Male Rat

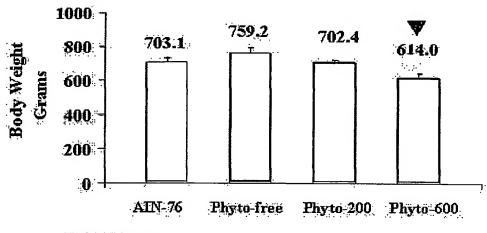


FIGURE 32

350 Day Old Male Rat

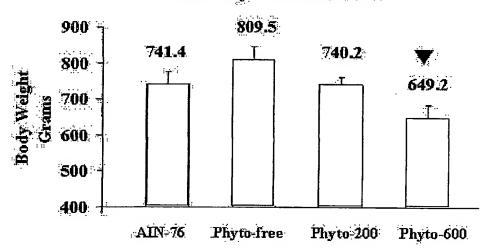
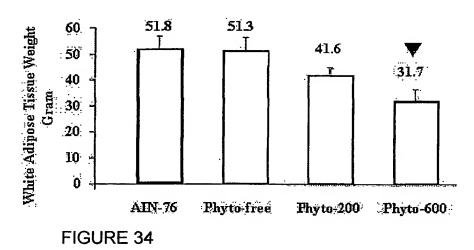
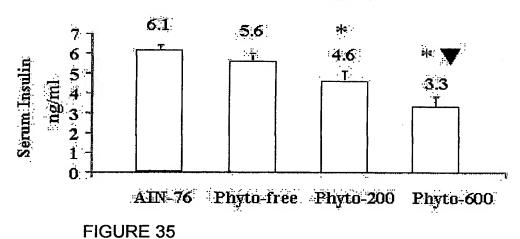


FIGURE 33

350 Day Old Male Rat



350 Days Old Male Rats





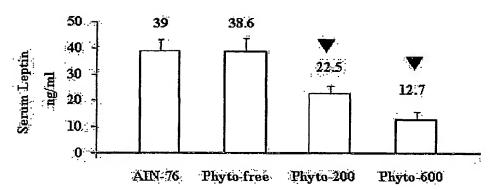
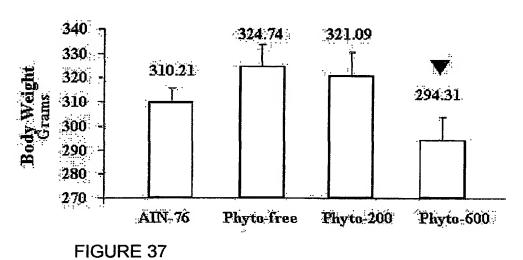


FIGURE 36

112 Day Old Female Rats



279 Days Old Female Rats

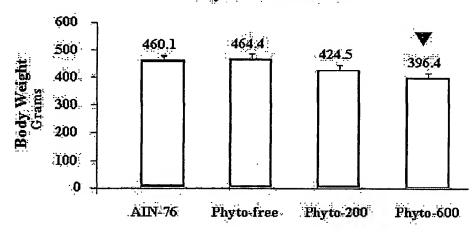
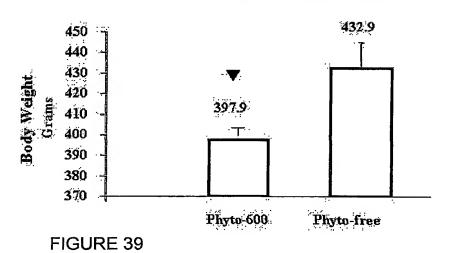


FIGURE 38

145 Day Old Noble Male



145 Day Old Noble Male Rat

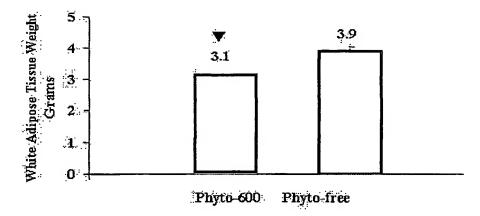


FIGURE 40

145 Day Old Noble Female Rat

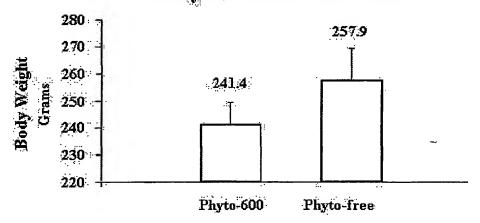


FIGURE 41

145 Day Old Noble Female Rat

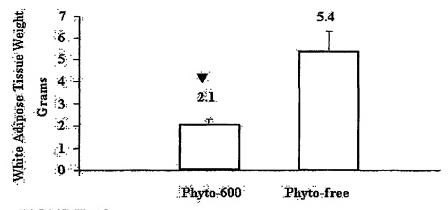


FIGURE 42

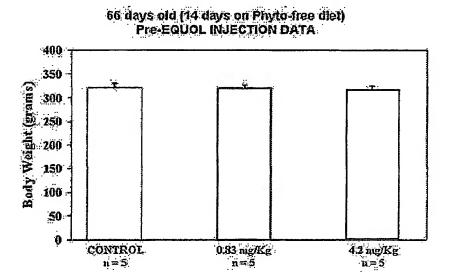


FIGURE 43



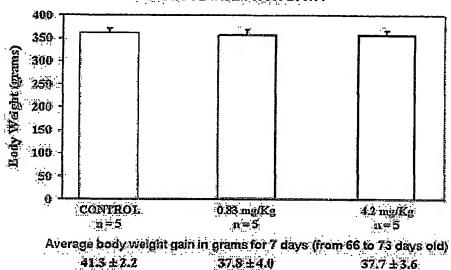


FIGURE 44



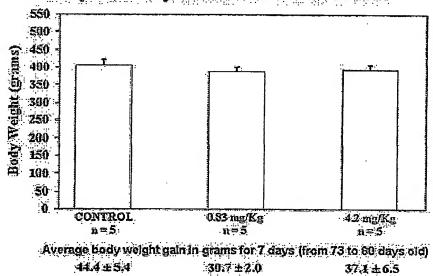
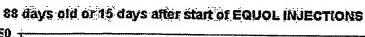
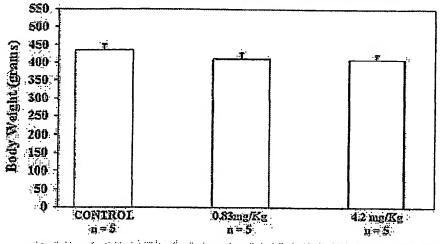


FIGURE 45

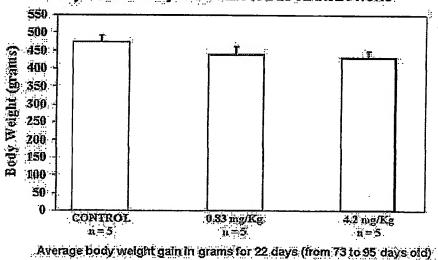




Average body weight gain in grams for 15 days (from 73 to 88 days old) 72.4 ± 9.1 55.1 ± 5.2 54.3 ± 7.3

FIGURE 46

95 days old or 22 days after start of EQUOL INJECTIONS



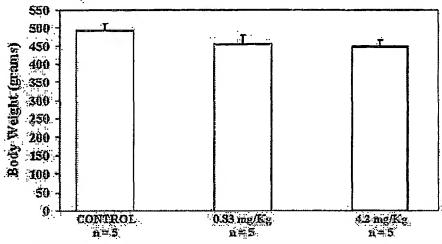
38.5±9.5

76.0±93°

FIGURE 47

 112.0 ± 10.1

101 days old or 28 days after start of EQUOL INJECTIONS



Average body weight gain in grams for 28 days (from 73 to 101 days old)

131.7±11.5

96.3±83.7

92.4±10.0

FIGURE 48

101 days old or 28 days after start of EQUOL INJECTIONS)

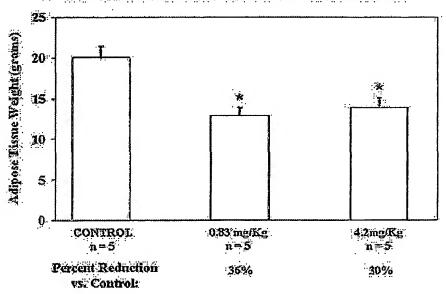


FIGURE 49



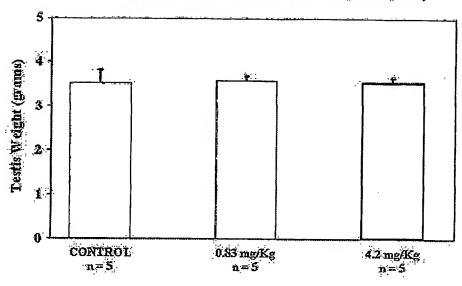
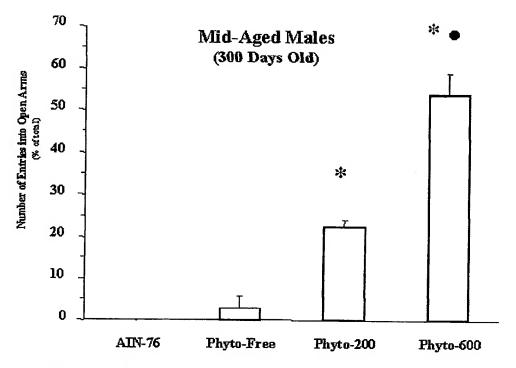


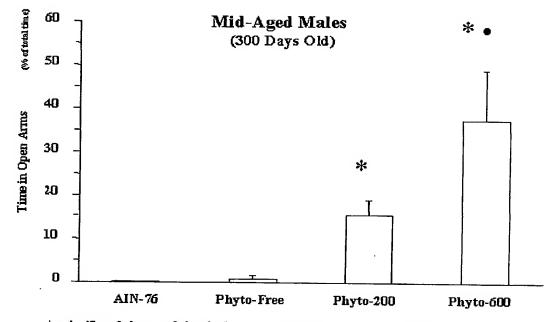
FIGURE 50



 $[\]star$ = significantly increased number of entries compared to AIN-76 or Phyto-Free fed males \bullet = significantly increased number of entries compared to Phyto-200 fed males

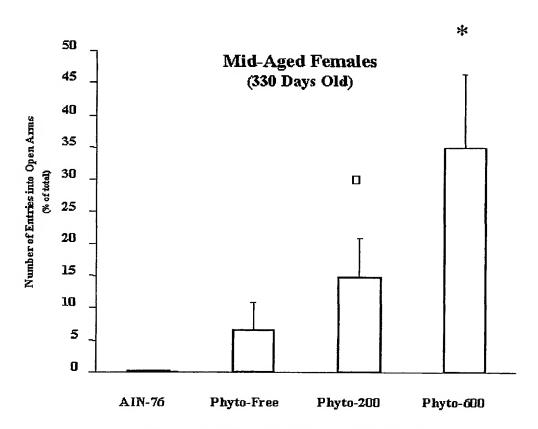
FIGURE 51

n = 5 animals per group



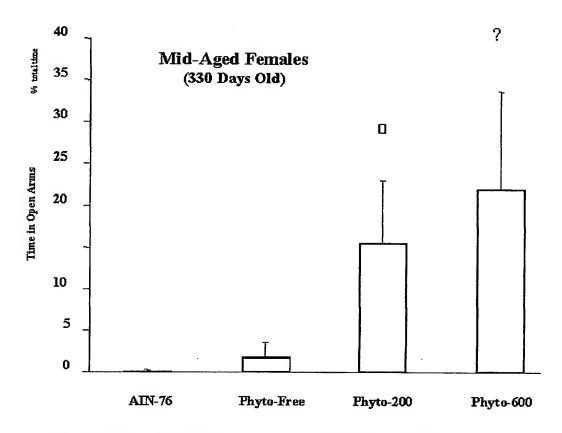
 $^{\pm}$ = significantly increased time in the open arms compared to AIN-76 or Phyto-Free fed males $^{\pm}$ = significantly increased time in the open arms compared to Phyto-200 fed males; n=5 per treatment group

FIGURE 52



D = significantly increased number of entries compared to AIN- 76 values \pm = significantly increased number of entries compared to all other groups n = 7 animals per group

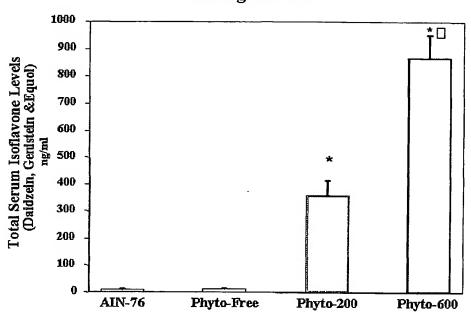
FIGURE 53



 \Box = significantly increased time spent in open arms compared to AIN- 76 values ? = significantly increased time spent in open arms compared to AIN-76 and Phyto-free values n = 7 animals per group

FIGURE 54

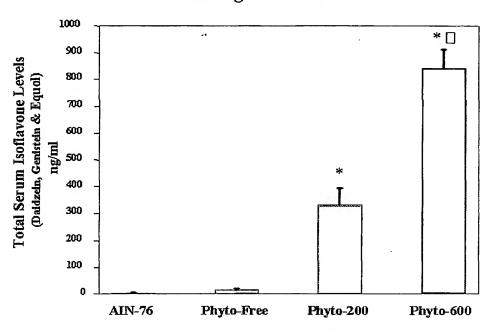
Serum Isoflavone Levels in Mid-aged Males



- * = significantly higher isoflavone levels vs. Phyto-free or AIN-76 values.
- = significantly higher isoflavone levels vs. Phyto-200 values Equal represented the majority of the isoflavones circulating in all of the diet treatment groups (> 75%)

FIGURE 55

Serum Isoflavone Levels in Mid-aged Females



* = significantly higher isoflavone levels vs. Phyto-free or AIN-76 values. = significantly higher isoflavone levels vs. Phyto-200 values. Equal represented the majority of the isoflavones circulating in all of the diet treatment groups (> 75%)

FIGURE 56

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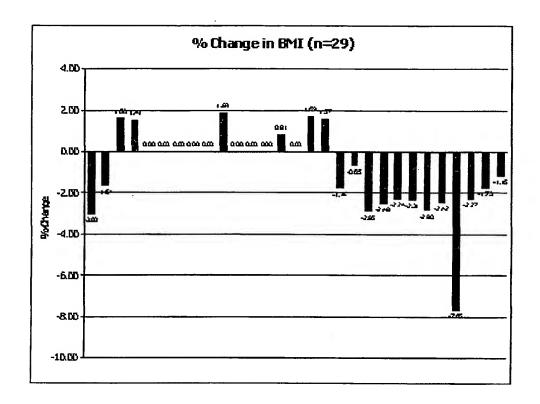


FIGURE 57

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